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Subject: Mathematics Year 10 Curriculum Map 2024 - 25		
Week Commencing	Topic (including links to additional resources)	Assessment Window
Staff INSET 02/09 Students Return 03/09	Numerical Skills Properties of number, equivalent FDPR, calculations, estimations and accuracy, standard form. Higher tier: Prime factorisation Negative, fractional and zero powers Surds	
09/09/2024	Recurring decimals Error intervals Bounds and limits of accuracy Calculator and non-calculator standard form Crossover tier: HCF and LCM from lists Prime factorisation	
16/09/2024	Negative, zero and unit fraction powers Converting fractions, decimals and percentages Comparing ratios Simplifying fractions Written calculations with number Written calculations with fractions Rounding to given place values Rounding to significant figures Estimation Error intervals	1 – 2 teacher marked learning checkpoints 2 student marked learning checkpoints
23/09/2024	Foundation tier: Place value Ordering directed numbers and decimals Multiples, factors and primes Square numbers, cube numbers and roots Prime factorisation Converting fractions, decimals and percentages	
30/09/2024	Comparing ratios Simplifying fractions Written calculations with number Written calculations with fractions Rounding to given place values Rounding to significant figures Estimation	

Ormiston Meridian Academy is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.



















	Algebraic Skills	
	Expressions, formulae, sequences	
	Higher tier:	
	Expanding double and triple brackets	
	Factorising expressions into single and double brackets	
	Factorising monic and non-monic quadratics	
07/10/2024	Algebraic fractions	
	Algebraic proof	
	Substitution	
	Changing the subject of any formula	
	SUVAT formulae	
	Nth term of linear sequences	3 teacher marked
	Nth term of quadratic sequences Fibonacci sequences	learning checkpoints
	Fibonacci sequences Geometric progressions	leaning eneckpoints
	Geometric progressions	1 student marked
	Crossover tier:	learning checkpoint
	Algebraic simplification	
	Collected like terms	
	Expanding single brackets	
	Factorising into single brackets	
14/10/2024	Expanding double brackets	
	Factorising monic quadratics	
	Function machines	
	Substitution Changing signals subjects	
	Changing simple subjects SUVAT formulae	
	Diagrammatic and numerical sequences	
	Continuing sequences	
	Nth term of linear sequences	
	Fibonacci sequences	
	Foundation tier:	
	Algebraic simplification	
	Collected like terms	
	Expanding single brackets Experience into single brackets	
21/10/2024	Factorising into single brackets Expanding double brackets	Achievement Round 1
	Simple function machines	
	Substitution	
	Changing simple subjects	
	Diagrammatic and numerical sequences	
	Continuing sequences	
	Nth term of linear sequences	
October Half Term		

	Datic and avanagion	
	Ratio and proportion Higher tier:	
04/11/2024	Writing and using ratio in the form 1 : n Combined ratios Sharing into complex ratios Worded direct and inverse proportion Proportional equations Best buys	Achievement Round 1
	Recipes	
11/11/2024	Writing and simplifying ratio Writing and using ratio in the form 1 : n Simplifying ratio with mixed units Sharing into ratio Comparison with ratio	
18/11/2024	Worded direct and inverse proportion Simple proportional equations Best buys Recipes Direct proportion graphs Currency conversion Foundation tier: Writing and simplifying ratio	2 teacher marked learning checkpoints 1 student marked learning checkpoint
25/11/2024	Writing and using ratio in the form 1 : n Simplifying ratio with mixed units Sharing into ratio Best buys Recipes Direct proportion graphs Worded direct and inverse proportion Currency conversion	
02/12/2024	Percentages Higher tier: Uses of percentage multipliers Percentage increase and decrease Simple interest Compound interest Percentage change Original amounts (reverse percentages)	
09/12/2024	Non-calculator methods for percentage change Exponential growth and decay Crossover tier: Percentage increase and decrease Simple interest Compound interest Percentage change Original amounts (reverse percentages)	2 teacher marked learning checkpoints 1 student marked learning checkpoints
16/12/2024	Non-calculator methods for percentage change Foundation tier: Percentage increase and decrease Simple interest Compound interest Percentage change	
Christmas Break		

06/01/2025	Equations and inequalities Linear equations, quadratic equations, inequalities, simultaneous equations, iterative processes	
00/01/2025	Higher tier: Solving ranges of linear equations using balancing.	
13/01/2025	 Form and solve equations in context. Solving algebraic fractions. Solve quadratic equations by factorising. Solve quadratic equations by completing the square. Solve quadratic equations by graphs. Solve quadratic equations by quadratic formula. Solve linear inequalities. Solve quadratic inequalities. 	
20/01/2025	 Represent linear inequalities on a number line. Represent linear inequalities graphically. Solve linear simultaneous equations by elimination. Solve linear simultaneous equations by graphs. Solve non-linear simultaneous equations, Use iterative formulae to solve equations. Use decimal search to solve equations. 	3 teacher marked learning checkpoints 2 student marked learning checkpoints
27/01/2025	Solving linear equations. Forming and solving linear equations. Solving equations with non-integer values. Solving quadratic equations by factorising.	
03/02/2025	 Solving quadratic equations using graphs. Solve linear inequalities. Represent linear inequalities on a number line. Solve linear simultaneous equations by elimination. Solve linear simultaneous equations by graphs. Foundation tier:	
10/02/2025	 Solving linear equations. Forming and solving linear equations. Solve linear inequalities. Represent linear inequalities on a number line. Solve simple simultaneous equations. 	Achievement Round 2
February Half Term		

	Angle reasoning	
24/02/2025	 Higher tier: Angles on parallel lines Angles in polygons Bearings Circle theorems 	Achievement Round 2
03/03/2025	Crossover tier: Basic angle facts Angles on parallel lines Angles in polygons Bearings	2 teacher marked learning checkpoints
10/03/2025	Foundation tier: Basic angle facts Angles on parallel lines Angles in polygons Bearings	0 student marked learning checkpoints
17/03/2025	Congruency and similarity Higher tier: Translations Rotations Reflections	
24/03/2023	Enlargements with positive scale factors Enlargements with negative scale factors Linear similarity Proving congruent triangle pairs Area and volume similarity Repeated transformations. Crossover tier:	1 teacher marked learning checkpoint
31/03/2025	 Translations Rotations Reflections Enlargements with positive scale factors Linear similarity 	0 student marked learning checkpoints
07/04/2025	Foundation tier: Translations Rotations Reflections Enlargements with positive scale factors Linear similarity	
Easter Break		

28/04/2025	Triangle measures Expressions, formulae, sequences Higher tier:	
05/05/25	Pythagoras' Theorem Right-angled triangle trigonometry Pythagoras' and trigonometry in 3D Exact trigonometric values Sine and cosine rule	1 teacher marked learning checkpoint
12/05/2025	 Sine rule for area of triangles Crossover tier: Pythagoras' Theorem Right-angled triangle trigonometry 	0 student marked learning checkpoints
19/05/2025	Pythagoras' Theorem Right-angled triangle trigonometry	
May Half Term		

	Statistics	
	Discrete data, bivariate data, continuous data Higher tier:	1 teacher marked
	nigher der.	learning checkpoints
02/06/2025	Averages from tables	
	Reverse means	2 student marked
	Comparing data	learning checkpoints
	Pie charts	
	Scatter graphs	
	Histograms	
	Box plots	
	Cumulative frequency diagrams	
	Time-series diagrams	
09/06/2025	Stem and leaf diagrams	Year 10 Mock Exams
	Capture-recapture	
	Crossover tier:	
	Averages from lists	
	Averages from tables	
	Reverse means	
	Comparing data	
	Pie charts Oceanies	
16/06/2025	Scatter graphs Bay abouts	Year 10 Mock Exams
	Bar charts Time position diagrams	
	Time-series diagrams Others and leaf diagrams	
	Stem and leaf diagrams	
	Foundation tier:	
	Averages from lists	
	Averages from tables	
	Comparing data Pia abouts	
23/06/2025	Pie charts Control graphs	Year 10 Mock Exams
	Scatter graphsBar charts	
	 Time-series diagrams Stem and leaf diagrams 	
	Constructions	
	Expressions, formulae, sequences	
30/06/2025		Year 10 Mock Exams
	Higher tier:	
	Construct perpendicular lines	
	Construct angle bisectors	
07/07/2025	• Loci	
	Crossover tier:	
14/07/2025	Construct perpendicular lines	1 teacher marked
	Construct angle bisectors	learning checkpoint
	Construct angle disectors Loci	<u> </u>
		0 student marked
	Foundation tier:	learning checkpoints
21/07/2025	Construct perpendicular lines	
	Construct angle bisectors	
21/07/2025	Construct angle bisectors	